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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for the

MISSOURI and ARKANSAS

DRAINAGE BASINS

May 1, 1942

Issued by the
United States Department of Agriculture
Soil Conservation Service
Division of Irrigation
In Cooperation with
The Colorado Agricultural Experiment Station
Colorado State College
Fort Collins, Colorado

May 10, 1942

SHOW SUMMERS THE TENED TO THE PROPERTY OF SECRETS

for the

MISSOURI and ARKINSAS

SMIRAH SCHWELSCH

May 1, 1942

Issued by the
United States Department of Agriculture
Soil Senestvetion Service
Pivision of Irrigation
In Geoperation with
The Colorede Agricultural Reportment Station
Colorede State Vollege
Fort Collins, Colorede

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SNOW SURVEYS AND IRRIGATION WATER FORECASTS FOR MISSOURI AND ARKANSAS RIVERS May 1, 1942

tion, U. S. Geological Survey, War Department and State Experiment Stations. This work is otherwise conducted cooperatively with the State Engineers of Colorado and Wyoming, and various municipalities, irrigation Division of Irrigation, Soil Conservation Service, of the U. S. Department of Agriculture, in cooperation with State departments, other Federal bureaus and local organizations. The snow measurements are made principally by field personnel of the following organizations: Forest Service, National Park Service, Bureau of Reclama-The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by the associations, power companies and others. Precipitation records are supplied by the U. S. Weather Bureau.

PRECIPITATION DATA

| - | | (Based on inc | (Based on incomplete returns) | | |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Precipitation | Departure | Precipitation | Departure |
| WATERSHED | STATE | October 1 to | from | | from |
| | | April 30 | Normal | April | Normal |
| | | Inches | Inches | Inches | Inches |
| Missouri | East. Mont. | 4.93 | 10.0- | 1.35 | *0.25 |
| Missouri | Cent. Mont. | 5-14 | -0.51 | 0.56 | -0.63 |
| | North. Wyo. | 9.13 | -1.42 | 1.58 | -0.45 |
| North Platte | Wyoming | 8 25 | +1.23 | 2.32 | 06.04 |
| South Platte | Colorado | 14.05 | +6.31 | 24.9 | 14.21 |
| Arkansas | Colorado | 12.73 | +5.86 | 5.92 | \$0°†+ |
| | | | | | |
| - | and the state of the same of t | CONTRACTOR OF THE PARTY OF THE | 一年の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日 | | Annual and and and and and and and and and an analysis of an analysis and an a |

precipitation from October 1 to April 30 is now considerably above normal except in central and castern Montana, Precipitation during April was above normal except in central Montana and northern Wyoming. The greatest excess of precipitation occurred over the watersheds of the South Platte and Arkansas Rivers. The accumulated and northern Wyoming. Conditions in Colorado and most of Wyoming are much better than they were a month ago.

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SUMMARY OF MAY 1 SNOW SURVEYS AND CONPARISON OF DATA

WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

| | | | | | | | Number | | | | 1942 Water | Water Content |
|----------------------------|---------------|---------|--------------|-------------|---------|-------|----------|----------------|--------------|---------|---------------|---------------|
| WATERSHEDS | Snow | w Depth | th | Water | Content | nt | courses | Sno | Snow Density | _ | in percent | ent of |
| | Seven | | | Seven | | | in | Seven | | | Seven | |
| | Year Avg.* | 1941 | 1942 | Year Avg. * | 1941 | 1942 | average | year Avg.* | 1941 | 1942 | year Ave.* | 1941 |
| MISSOURI RIVER | In. | In. | In. | In. | In. | In. | | Percent | Percent | Percent | 0 | |
| Jefferson River | 18.8 | 21.2 | 25.3 | 0.9 | 5.7 | 0.8 | N | 32 | 27 | 32 | 133 | 140 |
| Madison River | 35.3 | 25.4 | 26.1 | 15.1 | 10.3 | 11.0 | 5 | 15 | 4 | 142 | 73 | 107 |
| Gallatin River | 27.6 | 22.0 | 29.8 | 10.0 | 7.5 | 10.0 | m | 36 | 33 | 34 | 100 | 139 |
| Missouri River** | 12.1 | 10.8 | 10.8 | 0°₩ | 3.5 | 14.0 | 4 | 33 | 32 | 37 | 100 | 114 |
| Marias River | 12.6 | H | 2.7 | 5.6 | E-I | 1.0 | N | 71 | 1 | 37 | 18 | 1 |
| Yellowstone River | 16.0 | 22.2 | 5.1 | 5.7 | 7.2 | 7.7 | # | 36 | 32 | 27 | 25 | 19 |
| Shoshone River | 34.9 | 37.8 | 24.7 | 11.8 | 10.01 | 7.7 | 2 | 34 | 27 | 30 | 63 | 73 |
| Bighorn River | 19.9 | 30 % | 10.6 | 6.7 | 9.6 | 3.0 | 11 | 374 | 32 | 28 | 145 | 31 |
| Tongue River | 16.6 | 7.00 | 20.7 | 6.2 | 10.01 | 2007 | N | 37 | 33 | 56 | 37 | 23 |
| Powder River | 14.2 | 26.2 | 7.6 | 0.4 | 8.6 | 9.0 | N | 28 | 33 | 13 | 15 | _ |
| North Platte River | 48.1 | 51.6 | 1.6t | 19.1 | 19.5 | 17.0 | 10 | ⁷ € | 37 | 34 | 68 | 89 |
| Sweetwater River | 27.8 | 148.8 | 13.7 | 0.6 | 15.3 | 3.6 | N | 32 | 12 | 56 | 육 | 拉 |
| Laramie River | 23.7 | 29.5 | 30.5 | 00 | 6.6 | 8.7 | 7 | 37 | 34 | 27 | 92 | 82 |
| South Platte | | | | | | | | | | | | |
| River*** | 14.1 | 22.0 | 9.12 | 4.3 | 4.9 | | 2 | 30 | 29 | 30 | 151 | 102 |
| Crow Creek | 5.8 | 8.6 | 21.0 | 1.5 | 2.6 | す。力 | . ~ | 56 | 30 | 31 | 293 | 169 |
| Poudre River | 32.9 | 31.9 | 39.8 | 11.9 | 11,2 | 12,2 | 10 | 26 | 35 | 31 | 102 | 109 |
| Big Thompson River | 58.6 | 54.6 | 65.7 | 18.7 | 18.2 | 18.0 | N | 32 | 33 | 27 | 96 | 66 |
| St. Vrain River | 36.3 | 37 .2 | 53.0 | 12.6 | 12.4 | 14.5 | Н | 35 | 33 | 27 | 115 | 117 |
| Boulder Creek | 30.4 | 28.8 | 0. 小 | 10.6 | 9.6 | 14.9 | N | 35 | 33 | 32 | 141 | 155 |
| Clear Creek | 39.6 | .42.5 | 0.00 | 13.4 | 12.7 | 16.1 | Н | 34 | 30 | 32 | 120 | 127 |
| | , | 1 | | | | | | | | | | |
| ATRANSAS ALVER | 20.0 | H | 38.52 | 0, | 14.7 | 12.2 | 10 | 35 | 35 | 32 | 133 | 83 |
| *Some for shorter periods. | eriods. | **Hea | **Headwaters | of Mi | ssouri | River | ***Above | ve Denver, | ., Colo. | | | |

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WATER SUPPLY OUTLOOK

surveys show the water content of the snow on the Jefferson River drainage to be 140 percent over that of a year ago and a third more than the past seven-year average. Conditions on the Madison River watershed remained practically the same as on April 1, which is a 10 percent improvement over that of last year at this time. For some sections has already reached high stage during the past month, but recession followed due to sudden drop the present outlook is not favorable for a normal runoff from the snow cover. Snow cover at the high elevations is reported to be normal generally except Marias Pass, where it is found to be light. Stream flow in in temperature. The seasonal runoff in the principal streams heading in the mountain areas is expected to be the Gallatin and Upper Missouri, the present water storage in the snow pack is approximately one-fourth more Soil moisture generally is good, and indications promise better-than-normal reservoir storage this than it was a year ago and equal to the average over the past seven years. On the Marias River watershed, The water supply outlook for Montana has continued favorable over the past month.

moisture conditions are now good to excellent. The reservoir storage in northern Wyoming is much above normal, and because of this assured water supply the irrigation needs in the agricultural areas will be amply provided. the seven-year average. For all these northern Wyoming streams and tributaries, the coming runoff is expected Soil moisture over the north part of the state, particularly the Shoshone and Big Horn valleys, is deficient. WYOMING. Weather conditions throughout northern Wyoming during April were much below normal. The May 1 present water content of the snow cover is only 20 percent of that a year ago and but 25 percent of the past For the eastern and south central portions of the state, the April precipitation was about 4 inches and soil Big Horn, and Tongue river watersheds is much less than last year and only three-eighths to five-eighths of to be much below normal. The flow in the Big Horn will probably hold up better than for the other streams. snow surveys indicate a much less favorable outlook than was in view on April 1. For the Yellowstone the seven-year average. The outlook for the Powder River is less promising. The snow cover on the Shoshone,

the snow to be only 10 percent less than it was a year ago and slightly more than April 1. The seasonal runoff, now starting, will be normal or better and this, together with a large percentage of stored water in the reservoirs there, is expected to provide an ample supply for all irrigation needs. The soil moisture in both mountain and valley areas is good to excellent. The situation on the Laramie is now much improved over that month of April. The runoff from this drainage will be considerably below normal this season, as indicated by of a month ago. The heavy storm over the headwaters of this stream, since the snow surveys were made, added very greatly to the water content of the snow cover. High water in the Laramie River is expected during the For the North Platte, the situation is much better. The recent May 1 surveys show the water content of reservoirs, will provide adequately for the irrigation needs of agricultural areas served by this stream. Soil moisture is good to excellent. The outlook for the Sweetwater has become less favorable during the latter part of May and early June, with normal stage in midsummer. This runoff, with present storage in

The part of the pa

the May I snow surveys, where it is found that the water content of the snow is but one-quarter of the amount a year ago and only one-half the past seven-year average.

supply outlook for the coming season as shown by the recent snow surveys. On the headwaters of the South Platte, on to the Platte. The runoff from the Boulder and St. Vrain watersheds has been increasing over the past several also improved during the past month, with the low snow now melting rapidly, causing the stream to approach near flood stage. The reservoirs in the Loveland area are now filling, many at capacity, with surplus water passing Excess flow in this stream at present. At Julesburg the South Platte river has been at flood stage for several COLORADO. April storms over both the South Platte and Arkansas drainage areas further improved the water feet to the depths here reported. The effects of this storm are now appearing as increased flow in the river at Fort Collins. Much of this water will flow down the valley unused. The situation on the Big Thompson has above Denver, the water content of the snow is now equal to that of last year at this time and one-and-a-half times the past seven-year average. During the month this stream has been at near flood stage at Denver. The conditions on the headwaters of the Poudre have been materially improved. Immediately after the snow surveys were made, late in April, heavy storms occurred over the headwaters of this stream, which added two or more Reservoirs are now filling rapidly, with several filled to capacity, and a large excess flow is moving into days, and it is to be expected that extreme high water will occur in both these streams in the near future. water content of the snow pack over that of April 1 and is a fifth more than the past seven-year average. lower valley unused. On the Clear Creek watershed, the recent snow surveys show a substantial gain in days and already has reached a flow of 15,000 second-feet.

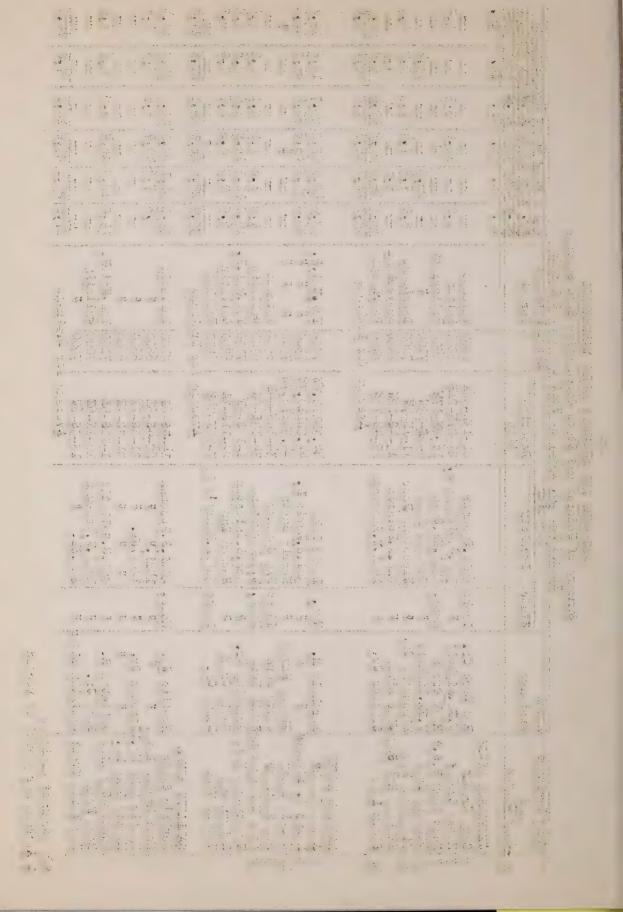
normal runoff. Heavy floods occurred in the lower valley during April, arising mainly from the Purgatoire drainage, where considerable damage resulted to the town of Trinidad. Flood water from the Fountain and upper areas in the South Platte and Arkansas valleys and tributaries will have ample irrigation supplies this season. Arkansas added to the crest of the flood. More than 50,000 second-fect is reported to have crossed the state The reservoirs throughout the Arkansas Valley are now at record filling. All agricultural On the headwaters the water content of the snow is a third more than the past seven-year average, a condition favorable for above-For the Arkansas the water supply outlook has also improved over the past month. The present crop outlook over these areas is exceptionally good. line into Kansas.

GROUNDWATER. Along the South Platte valley and tributary areas, where irrigation pumping is practiced, has lowered over the past year. For the Arkansas Valley, from Pueblo to Rocky Ford, there has been a general there is noted a general rise of the groundwater level. In the Prospect Valley district, the water table rise in the water table of about three feet over the past year.

THE COMMENT OF THE STATE OF THE

MISSOURI AND ARKANSAS RIVER WATERSHEDS Summary of Federal and State Gooperative Snow Surveys Issued Mar 10 10h2 of Fort Colling Columns

| | | | | Issued May 10, 1942, | at Fort 0 | Collins, Colorado | | | | |
|---------|--------------------------------|----------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------|----------------------------------|-------------------------|---------|------|
| | Main Drainage | Local | | Location | | Elev. National | May 1 Snow Co | Snow Cover Measurements | uremen | ts |
| V. | No Spow Course | Drainage | State | Locality | Descrip- | Forest | Sn | h Avewat | ter Con | tent |
| | | | , . | e de la companya del la companya de | | | In. In. In. | | - | Ine |
| | JEFFERSON RIVER | | | | 1 | | | | | |
| 9 | Camp Creek* | Red Rock Cr. | Idaho | omiN.Spencer | 21-13N-3GE | du directoria | i i | 1 | 1 | 1 |
| ~ | Moose Creek* | N.Fk.BigHole | = | 3mi .S .Gibbons P. | 27-27N-21E | | 8.6 15.8 | 8 3.3 | 1 | 5.7 |
| 7 | East Fork R.S.* Rock Creek | Rock Creek | Mont. | 13mi.NE.Sula | 16-12N-17W | 5400 Bitterroot | 1 | 1 1 | 1 | 1 |
| 10 | Gibbons Pass | N.Fk.BigHole | = | Giobons Pass | 4-28-19W | 1100 11 | | | 11.4 | 1 |
| 30 F | Pipestone Pass | Pipestone Cr. | ± | Pipestone Pass | 11-1N-7W | 7200 DeerLodge | 1°1 1°1 2°5 | 4 1.5 | 2.0 | 2.0 |
| 124 | Elkhorn Hot SpgsWise River | Wise River | g | Smi.N.Polaris | 15-48-12W | 8450 BeaverHead | 9.6 | | | Į. |
| 318 | Storm Lake | Seymour Cr. | - | 15mi • W • Anaconda | 19-4N-13W | \$100 DeerLodge for Drainage | 32.5 34.9 43.2 18.8 21.2 25.3 | 2 10 4 | 7 0 1 | 1400 |
| | | | | | | | | | | |
| 124 | MADISON RIVER | | | | | | | | | |
| N | 2 Aster Creek* | Firehole R. | Wyo. | Lewis Lake | W-3110.6W | 7700 Yel Nat.P. | 58.4 48.8 48.2 | 2 24.7 | 18.6 | 19.1 |
| N N | 8 Lewis L. Divide* | = = | ,= | 3mi.S.Lewis L. | 144.21110.7W | | 86.0 64.2 63.8 | 8 38.0 | 27.6 | 28.5 |
| 11 1 | 11 Norris Basin | Gibbon River | = | Norris Basin | WT. 011M2 . HH | 1 1 1 1 0092 | | 1 | 1 | E |
| 3.1 | Big Springs* | | Idaho | Big Springs | 34-141-1412-42 | 6500 Targhee | I | 1 | 1 | 1 |
| 16 4 | 16 West YellowstoneSouth Fork | | Mont. | W.Yellowstone | 34-138-5E | 6700 Gallatin | 1.6 | | 9.0 | 9.0 |
| <u></u> | Twenty-one Mile Greyling Cr. | Greyling Cr. | = | Smi.S.Gallatin | 1-1 :S-5国 | | 19.0 12.3 16.4 | | 7.6 | 4.9 |
| H | Hebgen Dam | Cabin Creek | = | | 22-115-3国 | 6550 Gallatin | 6.5 0.0 0.6 | 6 2.7 | 0.0 | 0.5 |
| | Valley View | Denny Cr. | Idaho | 5mi .E.Henry 1s L. | | 8 | 1 | - | 1 | - |
| | | - | | | Average f | for Drainage | 35.3 25.4 26.1 | 1 1501 | 10.3 | 11.0 |
| | GALLATIN RIVER | | | | | ac sheet | | | | |
| | Devil's Slide | Hyalite Cr. | Monte | 20mi .S.Bozeman | 14-58-6E | 8100 Gallatin | 54.1 46.1 62.2 | ll | | 7.00 |
| 14 | Hood Meadow Extra. | | = | Lymi. " | 22-4S-6E | 2 0099 | 9.6 7.6 10.7 | | 2.5 | 3.1 |
| 5-4 | Mystic Lake No.1Bozeman Cr. | Bozeman Cr. | = | n .ES. n | 31-38-7里 | | *** | 1 | 1 | 1 |
| | Mystic Lake No.2 | *** | * | ======================================= | 31-38-7里 | 0099 | 1 | 1 | 1 | 1 |
| CT | Twenty-One Wile Gallatin R. | Gallatin R. | = | | 1-118-5国 | | 19.0 12.3 16.4 | 1 8°0 | 9.4 | 4.9 |
| P+4 | Ross Peak | Ross Cr. | = | 12mi N. Bozeman | 10-1N-6E | 7000 Gallatin | - | 1 | 1 | 1 |
| 4 | New World Trail Gallatin River | Gallatin River | = | Smi.SE. n | | 10007 | 1 | | 1 1 | 1 0 |
| - (| | | | | Average f | for Drainage | 27.6 22.0 29.8 | 0.018 | 7.5 | 10.0 |



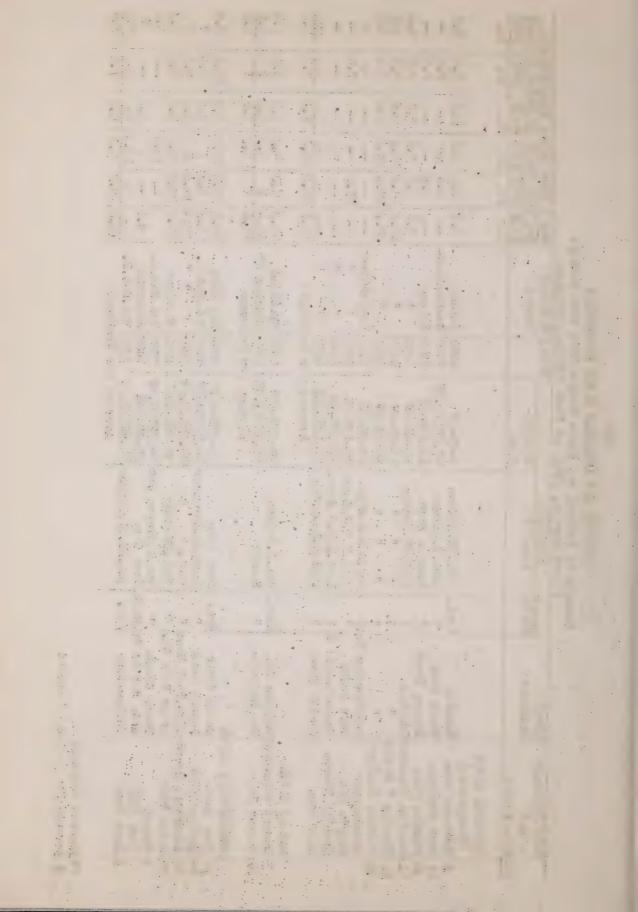
MISSOURI AND ARKANSAS RIVER WATERSHEDS

Summary of Federal and State Cooperative Snow Surveys Issued May 10, 1942, at Fort Collins. Colorado

| | rs S | tent | 1942 | In. | | | 0.3 | 1 | 1 | 0.8 | 5.2 | 4.6 | 1 | 1 | 1 | 1 | 0° †1 | | 70 11 | 0 | 4 | 03 | E | E | 2.1 | 3.5 | EH. | 15 | † e † |
|-----------------------------------------------|----------------|------------------------------|----------------|-----|----------------|--------------|-------------|------------------|-----------------|-----------------------------|-----------------------------------------|-----------------------------------------|------------------|------------------|-------------------|--------------|-------------|--------------|-------------------------------|--------------------|-----------------------------------------|---------------|-------------------|-----------------------------------|----------------|--------------------|----------------|------------------------|----------------------|
| | Measurements | Snow Depth Av. Water Content | 1941 | In. | | | 7.0 | 0,2 | 1.6 | 0.0 | 4.9 | 00 | 1 | 7.0 | 1 | 1 | 3.5 | | 0.0 | EHE | | 12,6 | 2.0 | 5.1 | 9.3 | 1 | 1 | 10 | 7. |
| | r Meas | Av. Wat | | In. | | | 0.8 | 1 | 1 1 | 0.1 | 2.4 | 0.0 | 1 | 1 | ! | 90 | 0. | | 6.2 | 200 | | | 2.6 | 7.8% | 5.7 | | 200 | - | 2.6 |
| | Snow Cover | lep th | 1942 Av.@ | In. | | | 1.0 | 1 | 1 | 2.6 | 16.2 | 23.6 | I | 1 | 1 | 1 | 10.8 | | 4.2 | 7.5 | J | 10.7 | E | | 6.6 | 12.4 | . 1 E- 1 | 77 | 7.00 |
| | 1 Snow | Snow I | Av.@ 1941 | In. | | | | †•0 | | | 14.8 | 24.8 | 1 | 27 °4 | 1 | 1 | 10.8 | | | E+ E- | | 39.8 | 6.5 | | | ł | 1 | 0000 | 7077 |
| | May | Ave | Av.@ | In | | ********* | 2.7 | 1 | I | 3.6 | 16.5 | 25.7 | 1 | 1 | 1 | l | 12.1 | | 114.8 | 10.4 |) | 25.7 | 7.3 | 1.3 04 | 17.8 | to available | ∞ ∞ | 1 | O Q T |
| ollins, Colorado | Elev. National | Forest | | | | | 6200 Helena | 7000 Lewis&Clark | 6900 Helena | 6250 " | 0089 | \$000s | 7000 Lewis&Clark | 7950 # | 6500 = | u 10009 | or Drainage | | 5600 FlatHead | 5250 Glacier NP | | 8800 Big Horn | 7300 Yel. Nat. P. | 7500 " " " | 8200 Shoshone | 7750 Yel.Nat.P. | 7400 Absaroka | (850 relenater | Average for Urainage |
| 2, at Fort C | | Descrip- | ti on | | | | 2-8N-5W | 47.5N112.9W | 16-13N-7W | 13-8N-6W | 13-8N-6W | 19-8N-5W | 19-9N-8E | 35-13N-7E | 31-10N-9E | 22-12N-18E | Average f' | | | 148.3N113.14W 52 | 000000000000000000000000000000000000000 | 11-53N-87W | 14.91110.6W | 14.9N110.6W | 32-56N-106W | We OLINT . 44 | 25-98-14国 | "to OTTNO th | Average I |
| ssued May 10, 1942, at Fort Collins, Colorado | Location | Locality | | | | - | ಣೆ | 26mi.W.Gilman | Stemple Pass | 17mi.SW.Helena | ======================================= | ======================================= | 6mi .S.W.S.Spgs. | 21mi.N.W.S.Spgs. | 12mi .E.W.S.Spgs. | | | | Umi.S.Belton | Summit | | Dome Lake | 11mi .SE Gardiner | | 34mi.Mw.Cody | Smi .N. Canyon Jct | ŧ | Smi . www. ris shingbr | |
| | | State | | | | | Mont, | | = | = | = | = | = | = | = | = | | | Mont. | ghair dien | | Wyoo | = | = | = | | | NYO. | |
| | Local | Drainage | | | | | Tenmile | South Fork | Canyon Creek | Tenmile | = | = | Grasshopper Cri. | Belt Creek | Mussellshell R | Judith River | | | Cutbank Cr. | Two Medicine | æ | oose Creek | Lupine Creek | .Blk.Tail Deer | Lodge Pole Cr. | Tower Creek | Soda Bottle Cr | rellowstone | |
| | Main Drainage | • | No.Snow Course | | MISSOURI RIVER | (Headwaters) | | | 36 Stemple Pass | 41 Tennile Cr. LowenTenmile | 42 Tenmile " Middle | 43 Tenmile Cr. Upper | _ | | ris | Half Moon | | MARIAS RIVER | 7 Desert Wountain*Cutbank Cr. | 20 Marias Pass | YELLOWSTONE RIVER | | Jupine Creek | 41 Blacktail DeerCr.Blk.Tail Deer | 70 Lodge Pole | | | / Lake Camp | |

*Adjacent Drainage

Average for period of record

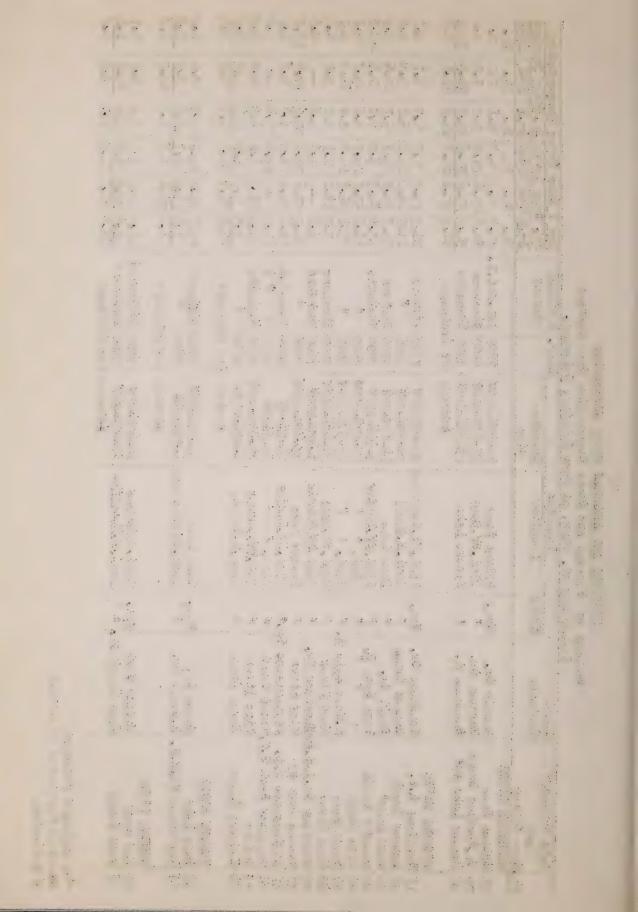


MISSOURI AND ARKANSAS RIVER WATERSHEDS

Summary of Federal and State Cooperative Snow Surveys

0.0 2.0 HO 2 7.0 1 2 00 8.1 12.0 2.00 25.0 2.2 2.3 0000 In. Av. Snow Depth Av. Water Conten 1 Snow Cover Measurements 19.6 19.6 172000 5.0 12.6 6.9 Av.@ 1941 1942 Av.@ 6.1 100t 9.2 8.2 8.2 2.0 0.8 0.0 けらった 2.00 20.00 6.2 0 t.0 In. 25000 16.9 17,5 39.65 11.01 10.7 1.5 000 6.9 6.7 4.00 In. 2.8 17 3 8 3 36 3 47 4 51 2 57 6 34 9 37 8 11.3 13.5 25-7 39-8 39.8 16.8 29.9 1.94 17.2 57.6 30.2 20.0 20.40 39.8 22.5 In. 27.1 7.7 2.0 51.2 18.6 19.5 1500 25.7 11.8 In. Yel. Nat. P. Shos. I.R. 7500 OffForest 9500 Shoshone 9200 Washakie Washakie Shoshone Washakie Elev. National 8750 Washakto Forest Bighorn Bighorn 8500 Bighorn 8800 Bighorn for Drainage = for Drainage or Drainage for Drainage = Colorado. 7100 12001 8800 8000 0006 95001 8300 8500 9200 88001 9500 8000 0006 13-30N-101W 28-46N-103W Average 12-52N-110W 25-51N-106W 23-44N-13.0W 23-114N-110W Average Average Average 27-42N-108W 23-31N-101W 1942, at Fort Collins, 3-42N-109W 11-53M-87W 3-31N-101W 30-49N-86W 32-53N-88W 17-49N-84W 1-43N-107W 11-53N-87W 18-4311-85W 4-53M-86W Descrip-26-1M-4W 23-25-3W tion 15mi .NE.Tensleep 20mi.SW.Sheridan lomi .W .Klondike 13mi.SW.Lander 16mi .NW. Dubois 27mi. W. Lander Location 23mi.W.Keycee Imi .NW .Dubois Lami .N. Dubois Loality 27mi .SW.Cody limi.E.Shell 42mi .SW. Cody Brooks Lake Sylvan Pass Brooks Lake = Domo Loke 19mi. " Dome Lake LSmi. " 15mi. " Issued May 10, State Wyo. Wyo. Wyo. L. Popo Agie R. Sour Dough Cr. Popo Agie R. Tensleep Cr. Ranger Creek ASheridan Cr. Hardpan Cr. St.Lawrence Shoshone R. Middle Fork Mosquito Park R.S. Trout Creek Horse Creek E. Goose Cr. Wood River Wind River Middle Cr. Wind River Shell Cr. Goose Cr. Drainage Local Big Goose Cr.R.S. Sheridan Cr.R.S.# St.Lawrence R.S. Up. Hardpan Basin Brooks Lake #3* SHOSHONE RIVER Brooks Lake #3 Main Drainage Tensleep R.S. Sawmill Glade BIGHORN RIVER Ranch Ranger Creek POWDER RIVER TONGUE RIVER No Snow Course Sylvan Pass Dome Lake* Blue Ridge Wood River South Pass Sour Dough Dome Lake Red Fork T-Cross and DuNoir 333 18 40 22222 37

*On adjacent drainage @Average for period of record E Estimated.



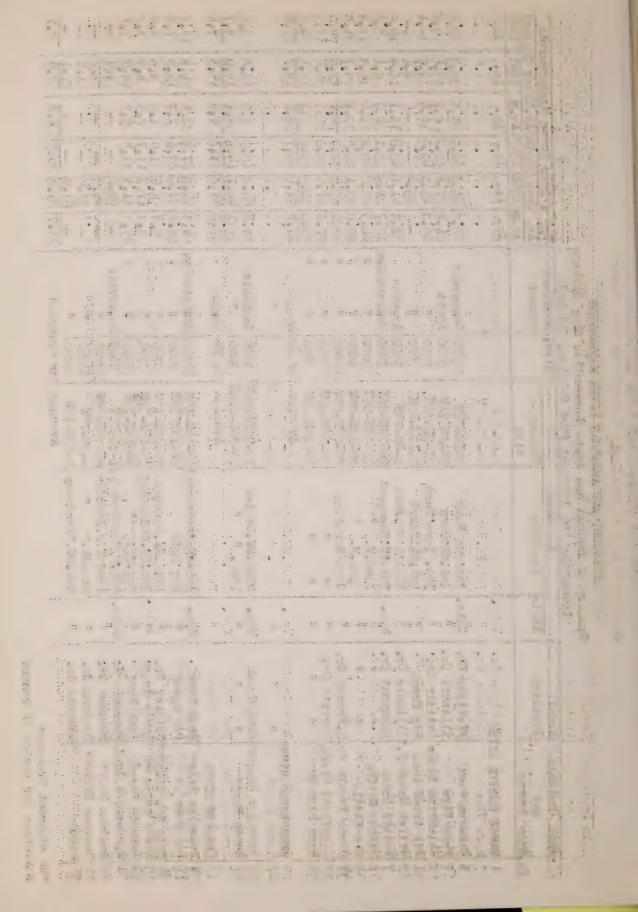
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MISSOURI AND ARKANSAS RIVER WATERSHEDS

Summary of Federal and State Cooperative Snow Surveys Issued May 10. 1942. at Fort Collins. Colorado

| 1 | Moin Drainage | 1.0001 | Issi | Issued May 10, 1942, | at Fort Coll | | Colorado | Most 7 | Su Car | Man Mond | | 1 |
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| | 200000000000000000000000000000000000000 | The tree | 40+0 | TOO | - | | Tour out | 10 | × F | 1 | Measurements | SAT. |
| No | No.Snow Course | Drainage | 2 2 2 | | tion | | rorest | Av. @ 1941 | 1941 1942 | 2 Av.@ 19 | 1941 | Content 41 1942 |
| | NORTH PLATTE RIVER | VER | | | | | | In. I | In. In. | In. | In. | In |
| - | Cameron Page | Wichigan Gr | Golos | Cameron Pass | W97-N9-C | 00201 | Roosewel + | | 1 79 6 7 | 2 1/0 1 | 20 2 | 20 |
| 11 | Park View | Illinois Cr. | 1 = | 7mi SE Rand | OH-FN-78W | 0000 | | 7 7 7 | 7.77 7.70 | | 72.57 | y c |
| - 60 | Columbine Lodge | Grizzly (| E | Rbt. Ears Pass | 21-5N-82W | 9300 | | | | 110,7 | 120 | 18.1 |
| K | Big Creek Lake | Big Creel | = | 5mi.SW.Pearl | 9-11M-82W | 9000 | = | | | | 00 | 1 |
| 62 | Willow Creek P.*Illinois | *Illinois Cr. | = | Willow Cr.Pass | 1-4N-78W | 9500 | Arapaho | 38.3 4 | 41.6 42.0 | 0 15.1 | 16.9 | 14. |
| - | Bottle Creek | Encopont Cr. | Wyo. | 7mi .SW .Encmpmnt | 24-14N-85W | 8200 | MedicineBow | | | | 8 | 7 |
| 03 | Webber Spring | ======================================= | = | lomi.W. " | 27-14N-85W | 0006 | = | | | 8 18.4 | 15.3 | 13.1 |
| 0) | Old Battle | = | 1_ | 12mi.W. n | 29-14N-85W | 0086 | to to | | | | 29.7 | 31. |
| 37 | North French Cr. N. French Cr. | N.French Cr. | = | Cent/Saratoga | 27-16N-80W | 10200 | 22 | | 89.4 89.2 | 2 34.2 | 31.9 | 32 |
| 33 | N.Barrett Cr.#2 Barrett Cr. | Barrett Cr. | = | garante de la constante de la | 30-16N-SOW | 001/6 | = | | | | 24.6 | 17. |
| 39 | | *** | - | == | | 000 | = | | | | 12.1 | 4 |
| | The same of the sa | | | page in Octo | Average f | or | urai nage | 48.1 5 | 1.6 49.7 | | 19.5 | 17.0 |
| | SWEETWATER RIVER | ~ | | | - Naverland Dychester | Q | | | | - | | |
| 20 | Grannier Meadows Eock Greek | Rock Greek | WVO | 20mi SW. Lander | 19-30N-100W | 9000 | Washakie | 28.6 5 | | | 7 | 7 |
| 土 | South Pass* | = | = | 19мі. и н | 13-30N-101W | 9000 | | | 46.7 14.5 | 1 | 0 | m |
| | LARANTE RIVER | e de la companya de l | | | Average I | or Drainage | | 27.8 | XO | | 15.3 | 3.6 |
| K | Brooklyn Lake | Nash Fork | Wyo. | 7mi.NW.Centennial/11-16N-79W | 11-16N-79W | 10200 | MedicineBow | 54.3 6 | 60.2 57. | | 21.8 | 17. |
| H | Fox Park | Fox Creek | = | Fox Park | 21-13N-78W | 9200 | = | | 23.6 28.6 | 7.7 | 10.2 | 1 |
| 37 | Pole Mountain#2*Soldier Grantibov Lodge #2 Libby Creek | Soldier Cr. | = = | lomi.SE.Laranie | 35-15N-72W | 8700 | = = | 200 | 8.6 21.0 | | 00 | た。な 7。7 |
| 30 | | Nash Fork | = | | 24-16N-79W | 9500 | = | | | | 10.0 | 1 |
| 7 | W.Port-G-P.TunnelLaramie R. | elLaramie R. | Colos | Chambers L. | 7-8N-75W | 8600 | Roosevelt | | | | 3.0 | . 1 |
| 50 | - | Deadman Cr. | = | | 26-101-75W | 10200 | David 1 | 1 | 76.2 | 1 | 14.2 | 1 |
| 7 | | | = | | 0-9N-74W | 10200 | = | 1 | h.e | 1 | 11.6 | 1 |
| 80 | Roach | LaGarde Cr. | = | Smi.NW.Glendevey | | 9800 | | | 98 | 1 | 21,01 | 1 0 |
| * | *On or town towns on wo | | | | Average | ior Prainage | | 25.0 | 7 - 12 50 - 5 | 2000 | 2 | 7 · × |

*On adjacent drainage ## Average for period of record

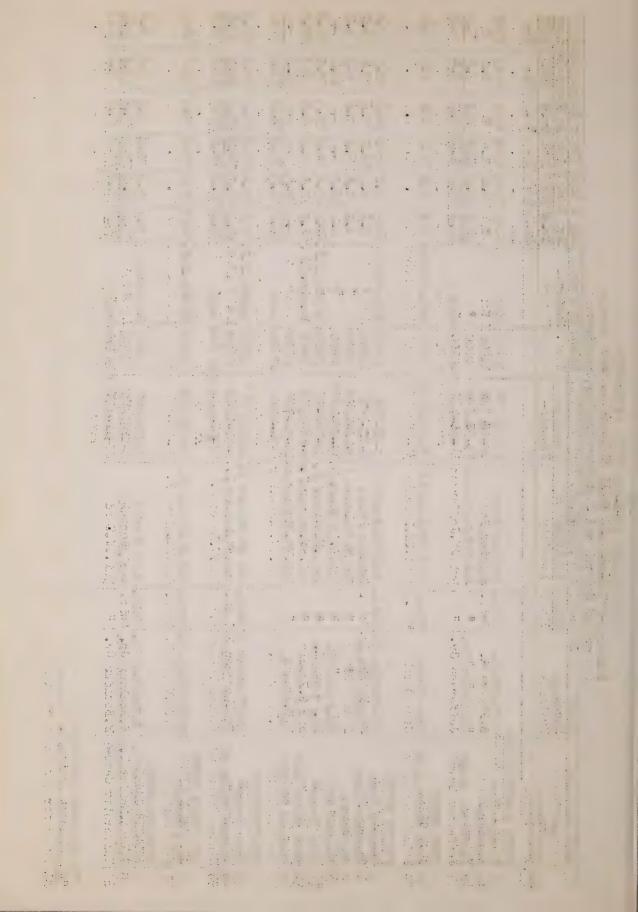


-9-MISSOURI AND ARKANSAS RIVER WATTERSHEDS

Summary of Federal and State Cooperative Snow Surveys Issued May 10, 1942, at Fort Collins, Colorado

| RIVER S.Platte R. Colo. Hoosier Pass 13-85-78W " Fairplay 37-95-77W Toe Wright Cr. Colo. Cameron Pass 2-6N-76W No.Poudre River Chambers Lake 6-7N-75W No.Poudre R. Chambers Lake 6-7N-75W No.Poudre R. Chambers Lake 6-7N-75W Rigs S.Poudre Chambers Lake 6-7N-75W Signi.N.R.R.Feather 6-9N-75W Rigs S.Poudre R. Chambers Lake 6-7N-75W Right Chamber Chambers Lake 6-7N-7W Right Chamber Chambers Chambers Chamber Chambers Chamber | Main Drainage | Local | | Location | | Elev. National | | May 1 | Snow Go | Ver Mea | romontto | ta |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|-----------------------------------------|------------------------------|-------------|----------------|----------|------------------------|----------|---------|----------|-------|
| S.Platte R. 5010. Hoosier Pass 13-88-78W 11400 Fike 52.0 39.8 H3.4H 10.3 12.3 Jefferson Cr. " Fairplay 33-98-77W 10000 " Th. In. In. In. In. In. In. In. In. In. In | and | | State | Locality | Descrip- | TOTA | - | Av Sn | 10W Dent | h Av Wo | ton Cox | + 50+ |
| SOUTH PLATER RIYER S. Platte R. Colo, Hooster Pass 17-85-78W 11400 Pike 72-0 39.8 43.4 10.3 12.3 12.4 Fairplay | Snow Course | | | | tion | 1 | | Av.@ | 941 194 | 2 Av.@ | 1941 | 1942 |
| Hoosier Pass S.Platte R. " Fairplay 13-68-78% 11400 1140 216 22.0 39.8 43.4 0.3 12.0 Fairplay The standard of th | SOUTH PLATTE RIVE | - H | | | | | | In. I | n. In. | In | In. | In |
| ### Pairthay " " " " Fairthay 19-96-77W 10000 " 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 10-14-66-20 | Hoosier Pass | | 00100 | Pass | 13-85-78W | | | | 19.8 43. | 4 10.3 | 12.3 | 13.5 |
| Jefferson Gr.#2 Jefferson Gr. 5mi.NW.Jefferson 14-78-76M 10100 " 10.44 25.02 21.44 2.77 7.00 CROW CREEK | Fairplay | | <u></u> | | 33-98-77W | 100001 | | | E 0.0 | | 0.0 | E |
| Crow Oreek Wyo. | Jefferson Gr.#2 | Jefferson Cr. | = | 5mi.NW.Jefferson | 14-75-76W | 10100 " | | 70. | 26.2 21 | - 1 | 악 | 200 |
| POUDER RIVER Joe Wright Or. Colo. Cameron Pass Joeware River Joe | CROW CREEK | ayan makani | | | T age Tan | or pramage | | 7.4077 | 17 00 CT | | † • | 0.0 |
| POUDER RIVER Commerce Rayle Commer | Pole Mountain #2 | Grow Greek | Wyo | ************ | 35-15M-72W | 8700 Medi | cineBow | 5.8 | 8.6 21. | | 2.6 | 7. |
| Cameron Pass Chambers Lake Big South No.Poudre R. " Chambers Lake Chambers Lake C-7M-75W 9000 " 1.1 1.2 6.1 0.3 0.3 | POUDRE RIVER | | | | | | | - duding the making in | × | | | |
| Otherwhere lake Poudre River " Chambers Lake 6-7M-75W 9000 " 9.6 8.5 16.7 3.6 3.4 Big South " 2mi.3.0Bambers L.38M-75W 8600 " 1.3 6.1 0.3 0.3 Big South " 1mi.SW.Wilner P. 26-10M-75W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Big S.Poudre R. 1mi.SW.Wilner P. 18-711-75W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Big Thompson R.Golo, Imi.SW.Wilner P. 2-311-76W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Big Thompson R.Golo, Imi.SW.Wilner P. 2-311-76W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Big Thompson R.Golo, Imi.SW.Wilner P. 2-311-76W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Big Thompson R.Golo, Imi.SW.Wilner P. 2-311-76W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Big Thompson R.Golo, Imi.SW.Wilner P. 23-511-76W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Big Thompson R.Golo, Imi.SW.Wilner P. 23-511-74W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Big Thompson R.Golo, Imi.SW.Wilner P. 23-511-74W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Big Thompson R.Golo, Imi.SW.Ward 22-511-74W 10600 Ry.Win.N.P.67.9 67.4 74.8 24.5 Boulder Gr. Smi.W.Allens P. 24-311-73W 10600 Ry.Win.N.P.65.3 77.2 75.0 12.6 Boulder Gr. Smi.SW.Ward 28-111-73W 10500 Ry.Win.N.P.65.3 77.2 75.0 10.5 9.6 Big Thompson R.Golo, Imi.SW.Ward 28-111-73W 10500 Ry.Win.N.P.65.3 77.0 10.5 9.6 Big Thompson R.Golo, Imi.SW.Ward 28-111-73W 10500 Ry.Win.N.P.65.3 77.0 10.5 9.6 Big Thompson R.Golo, Imi.SW.Ward 28-111-73W 10500 Ry.Win.N.P.65.3 77.0 10.5 9.6 Big Thompson R.Golo, Imi.SW.Ward 28-111-73W 10500 Ry.Win.N.P.65.3 77.0 10.5 9.6 Big Thompson R.Golo, Imi.SW.Ward 28-111-73W 10500 Ry.Win.N.P.65.3 77.0 10.5 9.6 Big Thompson R.Golo, Imi.SW.Ward 28-111-73W 10500 Ry.Win.N.P.65.3 77.0 10.5 9.6 Big Thompson R.Golo, Imi.SW.Ward 28-111-73W 10500 Ry.Win.N.P.65.3 77. | Cameron Pass | Joe Wright Cr. | 00100 | | 2-6M-76W | | | 64.5 6 | 53.2 66. | 1 24.6 | 22.3 | 22.0 |
| Big South No.Poudre R. | | Poudre River | = : | | 6-7M-75W | 0006 | | 0,6 | 8.5 16. | 7 3.6 | 3.4 | 4.7 |
| Deadman Hill No.Poudre R. 10mi.W.R.Feather 26-101-75W 10200 Ry.Mth.N.P.67.9 67.4 74.8 24.3 23.5 Big S.Poudre R. 1mi.SW.Wilner P. 8-5M-75W 10600 Ry.Mth.N.P.67.9 67.4 74.8 24.3 23.5 Boundan Hill#2 N.Poudre R. 2mi.NW.Pingree P.18-77M 10600 Ry.Mth.N.P.67.9 67.4 74.8 24.3 23.5 Big Thompson R.Colo. 1mi.SW.Wilner P. 6-9N-74W 10600 Ry.Mth.N.P.67.9 67.4 74.8 24.3 23.5 Big Thompson R.Colo. 1mi.SW.Wilner P. 6-5M-74W 10600 Ry.Mth.N.P.67.9 67.4 74.8 24.3 23.5 Big Thompson R.Colo. 1mi.SW.Wilner P. 6-5M-74W 10600 Ry.Mth.N.P.67.9 67.4 74.8 24.3 23.5 Boundar Valley #2 Hidden Valley R. Colo. 2mi.W.Allens P. 24.3 24.3 24.5 25.6 24.5 25.0 25.6 Boundar Creek B | Big South | = | ======================================= | 2mi .H. Chambers L. | 33-8N-75W | 0098 | | 1.1 | 1.3 6. | 1 0.3 | 0.3 | 1.7 |
| Lake Irene* Big S.Poudre R. Imi.SW.Wilner P. 8-5N-75W 10600 Ry.Wtn.N.P. 67.9 67.4 74.8 24.3 23.5 Boundle R. Imi.SW.R.Reather 6-9N-71W 10200 N. Mtn.N.P. 67.9 67.4 74.8 24.3 23.5 BigThompson R. Coloo Imi.SW.Wilner P. 6-5N-74W 10200 N. | Deadman Hill | No.Poudre R. | = | lomi .W.R.Feather | 26-1011-75W | | Ė | 7 | 16.2 | 1 | - | 1 |
| Four Glass Lake L.S.Poudre R. | Lake Irene* | Big S.Poudre | = | lmi .SW. Milner P. | 8-511-75W | 10600 Ry. | Wtn.N.P. | 67.9 6 | 17.4 74. | 8 24.3 | | 22.6 |
| BIG THOWPSON | Hour Glass Lake | L.S. Poudre | = : | 2mi .IW .Fingree P | 18-711-731 | | sevelt | 21.3 1 | 9.1 35. | 3 6.9 | | 10.2 |
| BIG THOMPSON BigThompson R. Colo. Lake Irene* Fidden Valley Processor Proce | Deadman Hill#2 | N.Foudre K. | | | 0 | 102001 | = | | | 10 | | 100 |
| Lake Irene* BigThompson R. Golo, lmi.SW.Milner P. 6-5N-76W 10200 " " " " 49.2 41.7 56.6 13.1 12.8 ST. VRAIN RIVER Wild Basin BOULDER CREEK BOULDER CREEK BOULDER CREEK BOULDER CREEK BOULDER Grey Washed Gr. " " " 49.2 41.7 56.6 13.1 12.8 BOULDER CREEK BO | BIG THOMPSON | | | | | or remarks | | | | 6-11-0 | | 7007 |
| ST. VRAIN RIVER Wild Basin N.St. Vrain R. Colo. 5mi.W.Allens P. 24-3N-74W 10000 Ry.Mtn.N.P. 36.3 37.2 53.0 12.6 12.4 BOULDER CREEK E.Port.Moffat T. S.Boulder Gr. Colo. East Portal 22-25-74W 9400 Roosevelt 5.3 5.6 22.0 1.5 2.6 University Camp#2 N.Boulder Gr. " 5mi.SW.Ward Average for Drainage 30.4 28.8 47.0 10.6 9.6 | Lake Irene* | BigThompson R. Hidden VallevC | Colos | p. | 8-511-76W | 10600 Ry.N | ftn.N.F. | 67.9 6 | 7 -4 74 | 8 24.3 | | 22.6 |
| ST. VRAIN RIVER Wild Basin N.St.Vrain R. Colo. 5mi.W.Allens P. 24.3N-74W 10000 Ry.Mtn.N.P.36.3 37.2 53.0 12.6 12.4 BOULDER CREEK BOULDER CREEK E.Port.Moffat T. S.Boulder Gr. " 5mi.SW.Ward Average for Drainage 50.4 28.8 47.0 10.6 9.6 | | | | , | | r Drainage | - | 53.6 | 4.6 65 | 7 18.7 | | 18.0 |
| ### BOULDER CREEK B. Port, Moffat T. S. Boulder Cr. 5mi.SW.Ward 22-25-74W 10500 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 1050 | | 1 | | F | | , CO | 5 | 1 | 1 | . (| | ا |
| S.Boulder Cr. Colo. East Portal 2-28-74W 9400 Roosevelt 5.3 5.6 22.0 1.5 2.6 M.Boulder Cr. " 5mi.SW.Ward 28-1M-73W 10300 " 55.6 51.9 72.0 19.8 16.6 Average for Drainage 30.4 28.8 47.0 10.6 9.6 | ursec prin | M.ot. Vrain K. | 0 100 | | N4-5N-74W | TOOOD HY. | Atn.N. | 50.00 | 162 55 | 0 77 0 | | 14.5 |
| N.Boulder Gr. " 5mi.SW.Ward 28-1N-73W 10300 " 55.6 51.9 72.0 19.8 16.6 Average for Drainage 50.4 28.8 47.0 10.6 9.6 | BOULDER CREEK E-Port. Moffat T. | S.Boulder Gr. | Colos | and the second second second | W17_25_C | alino Bone | | L, | 200 | r. | | 9 |
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| | | and the state of | | | | or Drainage | | 30.4 2 | 8.8 47. | 9.0 | | 14.9 |

@Average for period of record *On adjacent dreinege.



MISSOURI AND ARKANSAS RIVER WATERSHEDS

Summary of Federal and State Cooperative Snow Surveys

| | | | 70 | issued May 10, 1942, at Fort Collins, Colorado | at Fort Col | Lins, Co | Lorado | | | | | |
|-----|---------------------------------|-----------------|-------|------------------------------------------------|--------------------------------------------------------|----------------|-----------|----------------------------------|----------|---------|--------|------|
| | Wain Drainage | Local | | Location | | Elev. National | | May 1 Snow Cover Weasurements | 10W COVE | er Meas | uremen | ts |
| | and | Drainage | State | Locality | Descrip- | FO | | Av. Snow Depth Av. Water Content | r Depth | Av.Wat | er Con | tent |
| No | No Snow Course | | | | tion | | | Av.@ 1941 1942 Av.@ 1941 1942 | 11 1942 | Av.@ | 1941 | 1942 |
| | MERRO REFER | | | | | | | In. In. In. In. | In. | In. | In. | In. |
| 19 | 61 Loveland Pass #2 Clear Greek | Clear Greek | Colo. | • 10mi • W. Georgetown 27-48-76W 10100 Arapaho | 27-45-76W | 10100 Ar | | 39.6 42.5 50.0 13.4 12.7 16.1 | 5 50.0 | 13.4 | 12.7 | 16.1 |
| | ARKANSAS RIVER | | - 7- | | | | | | | | | |
| 19 | 19 Tennessee Pass | Tennessee Cr. | Colos | Tennessee Pass | 21-85-80W | 10200 00 | chetopa | 16.4 27. | 4 22.2 | 5.3 | 7.6 | 5,9 |
| 72 | | Lake Creek | = | | 22-11S-82W | 10500 | = | 25.4 28. | 8 38 8 | 8.1 | 0.4 | 11.1 |
| 421 | Warshall Creek* | Poncha Cr. | = | Marshall Pass | 24-48N-6E | 10800 | = | 30.3 54. | 4 45.4 | 10.6 | 17.8 | 13.5 |
| 143 | 43 Poncha Greek | = 2 | = | | 19-4811-71 | 10500 | == | 23.8 52. | 8 40.5 | 4.8 | 18.6 | 12.9 |
| 72 | Whiskey Creek #2 Whiskey Cr. | Whiskey Cr. | | Whiskey Cr. Pass | 37.2M105.2W | 10700 Ma | xwellGr. | 18,1 44. | 9 29.7 | 6.7 | 16.8 | 10.6 |
| 147 | 74 LaVeta Pass#2* Cuchara Cr. | Cuchara Cr. | = | LaVeta Pass | 22-28S-70W | 9300 Sa | nGristoGr | 9.9 36. | 3 29.0 | 7.8 | 13.8 | 11.3 |
| 78 | Four Mile Park #3 | Lake Creek | = | 3mt SW Twin L. | 23-11S-81W | 9700 00 | chetopa | 1.0 7. | 1 100 | 0.3 | 7.0 | 0°0 |
| 79 | 9 Fremont Pass #2 | B. Fork Ark. R. | = | Fremont Pass | 2-88-79W | 11100 Ar | apaho | 49.9 52. | 8 63.4 | 17.0 | 17.71 | 19.2 |
| 81 | 81 Blue Lakes #2 | Cuchara Cr. | = | 15mi .SW.LaVeta | 30-318-69W | 100001 | n Isabel | 21.6 48. | 9 37.2 | 6.2 | 16.6 | 13.5 |
| 92 | 92 Monarch Pass | S.Fork Ark.R. | Z | Monarch Pass | 16-49M-6E 110500 Cochetopa 69.6 63.3 75.8 24.1 24.5 23 | 1.0500 00 | chetopa | 59.6 63. | 3 75.8 | 24.1 | 24.5 | 23.7 |
| | | | _ | | Averag | e for Dr | ainage | 26.6 41. | 7 38.2 | 9.5 | 14.7 | 12.2 |
| 4 | | | | | | | | | | | - | |

- Average for period of record

*On adjacent drainage E - Estimated

RESERVOIR STORAGE

Reservoir Storage in Thousands of Acre-feet, Colorado and Wyoming, as of May 1, for the years 1933 and 1942, inclusive. (Based on data gathered by State Engineer of Colorado, U. S. Bureau of Reclamation and other agencies)

| A : Pe | A = Percentage of capacity. B = Perc | of capa | acity. B | - Perc | entage | of 10-y | ear ave | rage. C | Perc | entage | of fill | ing forecas | | 1942. | |
|--------------------------------------|--------------------------------------|---------|----------|--------|--------|---------|---------|----------|-------|--------|---------|--------------|-----|-------|-----|
| Reservoir | Capacity | 7 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 8 1939 1 | 1940 | 1941 | - | 10 yr Avg. p | | B | 0 |
| COLORADO | Ac-ft | Ac-ft | Ac-ft | Ac-ft | Ac-ft | Ac-ft | Ac-ft | Ac-ft | Ac-ft | Ac-ft | Ac-re | Ac-ft | 1 | 60 | 200 |
| Eleven Mile | 81.9 | 1 | 1 | 1 | 4.8 | 16.4 | 27.4 | 8.99 | | 81.9 | 81.9 | 50.0 | 100 | 164 | 100 |
| Cheeseman | 19.0 | ₹°8 | 上3。十 | 18.7 | 3200 | 1.84 | 7,45 | 1.62 | 59.8 | 7.64 | 79.1 | 45.3 | 100 | 175 | 100 |
| Marston | 18.9 | 14.6 | 17.1 | 13.8 | 14.2 | 16.7 | 16.7 | 15.4 | | 16.6 | 15.4 | 15.7 | 78 | 86 | 100 |
| Barr | 32.2 | 12.0 | 17.8 | ۲۰۲ | 11.4 | 2000 | 13.3 | 25.6 | | 10.5 | 28.6 | 15.8 | 89 | 181 | 100 |
| Milton | t. t/2 | 4.9 | 10.5 | L .02 | 3.5 | 11.0 | 1,0 | 15.9 | | 7. 7 | 19.6 | S | 08 | 245 | 100 |
| Standley | 18.5 | 1.4 | 0.0 | 200 | 13.4 | 15.8 | 12.2 | 15.7 | | 11.3 | 17.9 | 6.5 | 16 | 181 | 100 |
| Marshall | 10.3 | 1.8 | 3.1 | 0.1 | 4.1 | 0.9 | 6.9 | 6.2 | | 5.4 | 8.7 | † • † | 48 | 198 | 100 |
| 6 Some averages for shorter periods. | ages for | shorten | r period | . 02 | | | | | | | | | | | |

2849 Statistical delical statistics TO POTE STORES Som Housen the newspring TOOL TAKE 25 Partial (British in the

RESERVOIR STORAGE

10010001000 1000 100 S. Bureau of Reclamation and other agencies.) 242 362 362 856 156 137 250 153 145 143 100 110 191 107 156 124 Reservoir Storage in Thousands of Acre-Feet, Colorado and Wyoming, as of May 1, for the years 1933 to 1942, * Percentage of filling forecast for 1942 4 % C 100 1 2422222 るとのとのととというとのなっての 269.2 45.0 102.9 25.3 426.1 41.2 21.2 1000 802642400 502640100 333178800 1786748800 21.0 000 (Based on data from the State Engineer of Colorado, U. C 212 2000 4300 4300 600 352.8 てら44 ろ10 B - Percentage of 10-year average. 242.1 574.2 343.8 35.0* 263.5 1,44 *Estimated 13.0* 133.2 00 th 331.8 17.57 11.8 Ac-ft Filot Butte | 30.0 | Some averages for shorter periods 404.7 1933 Ac-ft 12,8 2000 m A = Percentage of capacity.
Reservoir 90.06 1070.0 100000 Capac-65.00 185.0 152.0 Cache la Poudre Point of Rocks COLORADO, Cont Chambers Lake Windsor Res. Jackson Lake Fossil Creek Jackson Lake Horse Creek Adobe Creek inclusive. Twin Lakes Pathfinder Julesburg Riverside Wheatland Bull Lake Halligan Meredith Loveland Shoshone Guernsey Mariano Prewitt WY OMING Seminoe Empire Alcova Plains Terry Union Model

| | | | | | | 187 | | | Govern | 100 | | 8 | 200 | 100 | 1 | 731 | 200 | | | | | 100 | 100 | | 202 | 001 | | | | | 0 | | - | |
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